



Application No 09/788,268

Paper dated: June 20, 2007

In Reply to USPTO Correspondence of Jan 5, 2007

AMENDMENT

Sir:

In response to the Office Action dated January 5, 2007 Applicant submits the following amendments and remarks. A petition for Extension of Time is filed concurrently herewith.

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claims 1-91 (cancelled)

92. (Currently Amended) A method for analyzing a polynucleotide, comprising:
- a) providing a polynucleotide having homology to a defined DNA sequence;
 - b) calculating the masses of two or more polypeptides encoded in two or more overlapping reading frames of said defined DNA sequence thereby obtaining a set of predicted mass values;
 - c) expressing two or more polypeptides from two or more overlapping reading frames ~~from the same region~~ of said polynucleotide, thereby creating two or more expressed polypeptides;
 - d) measuring the masses of said two or more expressed polypeptides, thereby obtaining a set of observed mass values; and
 - e) comparing said set of predicted mass values to said set of observed mass values.
93. (Previously Presented) The method of claim 92, wherein the polynucleotide contains a difference with respect to the defined DNA sequence and wherein said